

INVENTOR(S): YOJI SAKAGAMI ET AL.

FIG. 1

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APPLN. FILING DATE: FEBRUARY 21, 2002

TITLE: A PRECURSOR POLYPEPTIDE OF PHYTOSULFOKINE DERIVED FROM
ARABIDOPSIS THALIANA AND A GENE ENCODING SAID POLYPEPTIDE

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FIG. 2

1 CTCTCAGGCTCCCATTTACTTTCTCTATTGTTGCAATCAGTATGGTAAAGTTCACACC 60
M G K F T T

61 ATTTTCATCGGCTCTCCTTCTCTGCTCTACGCTAACCTACGCAGCAAGGCTGACTCCG 120
I F I M A L L L C S T L T Y A A R L T P

121 ACGACAACCCGCTTTGTCCAGAGAAAACCTCCGTCAAGGAAATTGAAGGAGACAAGGTT 180
T T T A L S R E N S V K E I E G D K V

181 GAAGAAGAAAGCTGCAACGGAATTGGAGAGAAGATGTTTGATAAGACCAAGCCTTCTT 240
E E S C N G I G E E C L I (R) S L L

241 CTTCACACCGATTACATTTATACTCAGAATCACAGCCCTTAAGTTCTGTATTAGAGCA 300
L H T D Y I Y T Q N H (K) P *

301 TTAATTAACTAATTACATTATCAACCCTATCACTGTAGTACTTTCTGTTTCTGTTCTGTC 360

361 TTTTGTGTTTGTGTTTGTATGTTATCGCTATTTTAAAGTTTCATTGTTATTGAAAG 420

421 TTCTTACACCATCATTTATTGATGCTCTCTTAAACAAAAAATAAAAAAAAAAAAAA 479

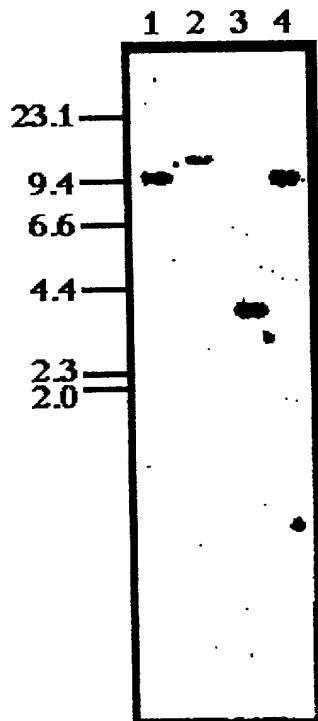
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FIG. 3



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FIG. 4

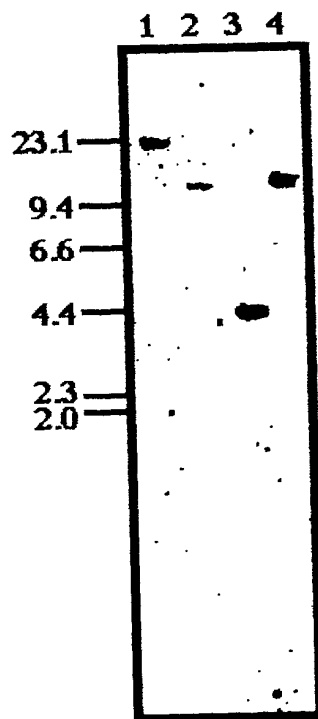


FIG. 5

OsPSK	1:MYN-PGRTARALCLLCLALLLLGQDTHSRK	29
AtPSK2	1:MANYSAALLTIAL-LLCSTLMCTARPEPAIS	29
	* * * * *	
OsPSK	30:L-LLQEKHSHGVGNGTTTTQEPSRENGGST	58
AtPSK2	30:ISITTAADPCNMEKKIEGKLDDHHHVEENC	59
OsPSK	59:GSNNNGQLQFDSAKWEEFHTDYIYTQDYKN	88
AtPSK2	60:GADDEDCL-MRRT-LYA-HTDYIYTQKKKH	86
	* * * * * *	
OsPSK	89:P	89
AtPSK2	87:P	87
	*	

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FIG. 6

OsPSK 1: MYNPGRTARALCLLCLALLLLGQDTHSRKL 30
AtPSKL 1: —HGKFT—TI—FI—MALLLCSTLTYAARL 24
* * * * *

OsPSK 31: LLQEKHSHGVGN GTTTTQEPSRENGGSTGS 60
AtPSKL 25: TPTTTTALSRENSYKEIEGDKVEEESCNGI 54
* * *

OsPSK 61: NNNGQLOQFDSA KWEEFHTDYIYTQDYKNP 89
AtPSKL 55: GEEEC L—I—R—RSLLLHTDYIYTQNHK—P 79
* * * * * *

FIG. 7

AtPSK2 1: MANNYSALLTIALLLCSTLMCTARPEPAISI 30
AtPSKL 1: HGKFTTIFIHALLLCSTLTYAARLTPTTTT 30
* * * * *

AtPSK2 31: SITTAADPCNHEKKIEGKLDDMHMVEENC— 59
AtPSKL 31: ALSR—EN—SV—KEIEG—DKVE—EESCN 52
* * * * *

AtPSK2 60: GADDEDCLMRRTLVAHTDYIYTQKKKHP 87
AtPSKL 53: GIGEEEC LIRRSLLLHTDYIYTQNHK—P 79
* * * * *

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FIG. 8

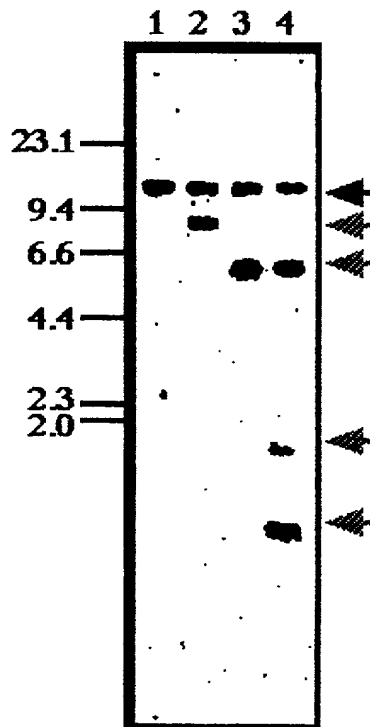
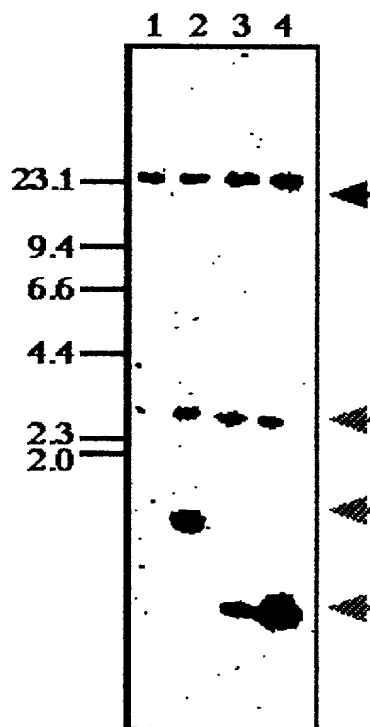


FIG. 9



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FIG. 10

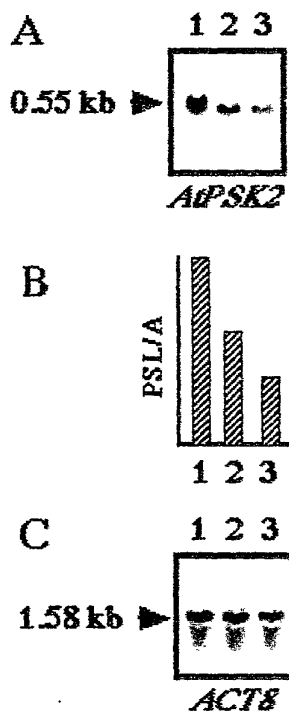
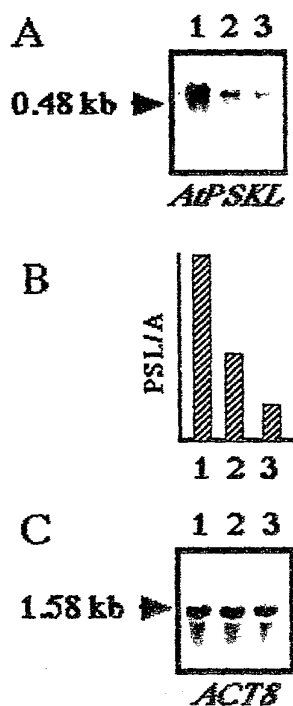


FIG. 11



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FIG. 12

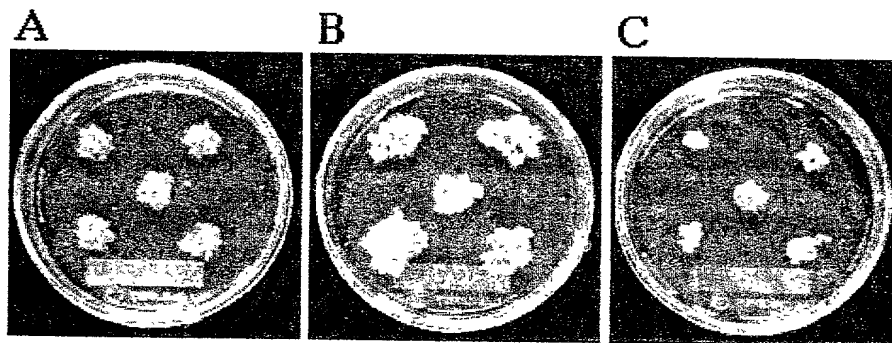
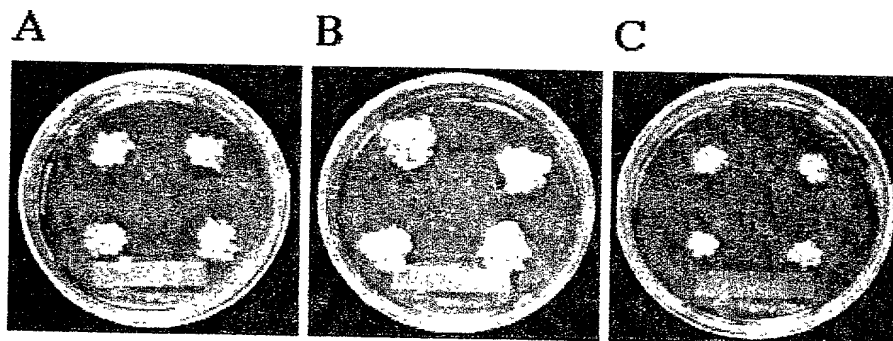


FIG. 13



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FIG. 14

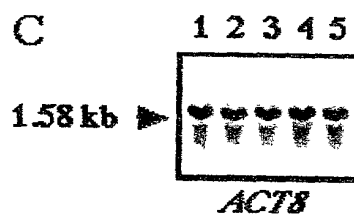
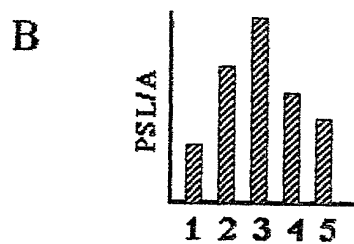
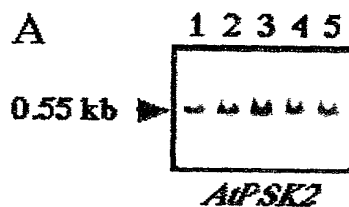
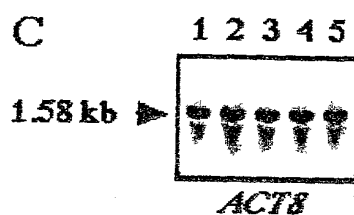
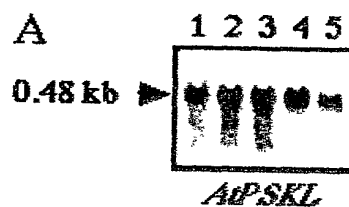


FIG. 15



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FIG. 16

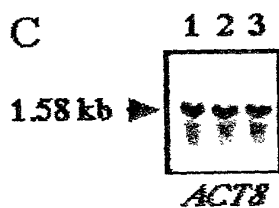
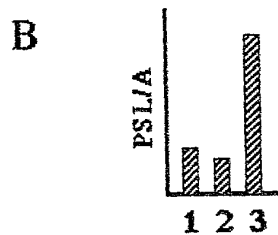
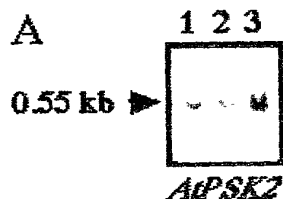


FIG. 17

